

MAIL STOP - PCT

Attorney Docket No.: 27260U

Date: May 19 , 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Art Unit: Unknown

ULRICH .

Examiner: Unknown

Appl. No.:

10/573,484

Filed:

March 24, 2006

Intl. Appl. No.:

PCT/EP2004/052378

Intl. Filing Date: September 30, 2004

For: IMIDAZOPYRIDINE-DERIVATIVES

AS INDUCTIBLE NO-SYNTHASE

INHIBITORS

TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

- 1) Submission of Documents to Supplement Filing Documents under 35 USC 371;
- PCT/IB/326 (Notification Concerning Transmittal of Copy of 2) International Preliminary Report on Patentability);
- 3) PCT/IB/373 (International Preliminary on Patentability);
- 4) PCT/ISA/237 (Written Opinion of the International Searching Authority).

The Commissioner is hereby authorized to charge any deficiency or credit any excess to Deposit Account Number 14-0112.

Respectfully submitted,

NATH & ASSOCIATES PLLC

Gary M. Nath, Reg. No. 26,965 Sheldon M./McGee, Reg. No. 50,454

Customer No. 34375

NATH & ASSOCIATES PLLC 112 South West Street Alexandria, VA 22314

GMN/SMM/le



MAIL STOP - PCT

Attorney Docket No.: 27260U

Date: May 19, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Art Unit: Unknown

ULRICH

Examiner: Unknown

Appl. No.:

10/573,484

Filed:

March 24, 2006

Intl. Appl. No.:

PCT/EP2004/052378

Intl. Filing Date: September 30, 2004

For: IMIDAZOPYRIDINE-DERIVATIVES

AS INDUCTIBLE NO-SYNTHASE

INHIBITORS

SUBMISSION OF DOCUMENTS TO SUPPLEMENT FILING DOCUMENTS UNDER 35 USC 371

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In order to supplement the filing documents for the national phase filing Under USC 371 commenced on March 24, 2006 of the captioned application, applicant now submits the following documents:

- 1) PCT/IB/326 (Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability);
- 2) PCT/IB/373 (International Preliminary Report on Patentability);
- 3) PCT/ISA/237 (Written Opinion of the International Searching Authority).

Please charge any deficiency or credit any overpayment to our Deposit Account Number 14-0112.

> Respectfully submitted, NATH & ASSOCIATES PLLC

Gary M. Nath, Reg. No. 26,965 Sheldon M. McGee, Reg. No. 50,454

Customer No. 34375

NATH & ASSOCIATES PLLC 112 South West Street Alexandria, VA 22314

GMN/SMM/le

PATENT COOPERATION TREATY

PCT/EP2004/052378

From the INTERNATIONAL BUREAU

SN: Om:

ps.

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

WILD, Robert c/o Altana Pharma AG 78467 Konstanz ALLEMAGNE EINGANG/RECEIVED

Gowerts Hockhawdady/ Intelloction Property ALTANA PHARMA AC

Date of mailing (day/month/year) 13 April 2006 (13.04.2006)

Applicant's or agent's file reference 1228WOORD01

IMPORTANT NOTICE

International application No. PCT/EP2004/052378

International filing date (day/month/year) 30 September 2004 (30.09.2004)

Priority date (day/month/year)
01 October 2003 (01.10.2003)

Applicant

ALTANA PHARMA AG et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yolaine Cussac

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 80

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1228WOORD01	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/EP2004/052378	International filing date (day/month/year) 30 September 2004 (30.09.2004)	Priority date (day/month/year) 01 October 2003 (01.10.2003)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant ALTANA PHARMA AG						

·. ·.			
1.	This international prelimina International Searching Aut	ary report on patentability (hority under Rule 44 bis.1)	Chapter I) is issued by the International Bureau on behalf of the a).
2.	This REPORT consists of a	eference to the written opin	nion of the International Searching Authority should be read as a reference
	to the international prelimin	ary report on patentability	(Chapter I) instead.
3.	This report contains indicati	ons relating to the following	ng items:
1	Box No. I	Basis of the report	
1	Box No. II	Priority	
	Box No. III	Non-establishment applicability	of opinion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of inv	rention
	Box No. V	Reasoned statement applicability; citatio	under Article 35(2) with regard to novelty, inventive step or industrial ons and explanations supporting such statement
	Box No. VI	Certain documents	
	Box No. VII	Certain defects in th	e international application
	Box No. VIII	Certain observations	s on the international application
4.	The International Bureau will not, except where the applica date (Rule 44bis .2).	I communicate this report that makes an express reques	to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but st under Article 23(2), before the expiration of 30 months from the priority
	•		Date of issuance of this report 03 April 2006 (03.04.2006)
	The International B 34, chemin des 0 1211 Geneva 20,	Colombettes	Authorized officer Yolaine Cussac
Facsimi	ile No. +41 22 740 14 35		Telephone No. +41 22 338 70 80
Form PC	CT/IB/373 (January 2004)	· · · · · · · · · · · · · · · · · · ·	

Box No. II Priority

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. IV Lack of unity of invention

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

Box No. VI Certain documents cited

Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 Authorized Officer

Bosma, P

Telephone No. +31 70 340-3665



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/052378

Box	No. I Basis of the opinion	
1. With the la	regard to the language, this opinion has anguage in which it was field, unless other	s been established on the basis of the international application in erwise indicated under this item.
18	This opinion has been established on the anguage , which is the language of a t under Rules 12.3 and 23.1(b)).	e basis of a translation from the original language into the following translation furnished for the purposes of international search
2. With r	regard to any nucleotide and/or amino ssary to the claimed invention, this opinio	acid sequence disclosed in the international application and on has been established on the basis of:
a. typ	e of material:	
	a sequence listing	
	table(s) related to the sequence listing	,
b. form	mat of material:	
	in written format	
	in computer readable form	
c. time	e of filing/furnishing:	
	contained in the international application	on as filed.
· . 🗆	filed together with the international app	olication in computer readable form.
. 🗖	furnished subsequently to this Authorit	
. <u>.</u> .		
ne CO	as been filed or furnished, the required s	e version or copy of a sequence listing and/or table relating thereto statements that the information in the subsequent or additional in as filed or does not go beyond the application as filed, as
4. Additio	onal comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

3. Additional observations, if necessary:

International application No. PCT/EP2004/052378

	Во	x No. II	Priority
1.	×	The fol	llowing document has not been furnished:
			copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
	٠.		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	:	Conser neverti	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2.		has be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/052378

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
T C	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non abvious), or to be industrially applicable have not been examined in respect of:				
C	the entire international application,				
. 🗵	claims Nos. 13,14 with respect to Industrial Applicability				
b	ecause:				
` \	the said international application, or the said claims Nos. 13,14 with respect to IA relate to the following subject matter which does not require an international preliminary examination (specify):				
•	see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	no international search report has been established for the whole application or for said claims Nos.				
	\cdot \cdot				
	the written form				
	☐ does not comply with the standard				
 	the computer readable form				
	□ does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further details				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-14
No: Claims

Inventive step (IS) Yes: Claims 1-14

No: Claims

Industrial applicability (IA) Yes: Claims 1-12

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/052378

considered as involving an inventive step (Article 33(3) PCT) for the following reasons: The present specifically substituted **imidazo[4,5-b]pyridine** derivatives of formula (I) are structurally very remote from any of the available prior art compounds having the same use and it is therefore considered that there were no incentives from this prior art to use the above described **pyridin-2-yl-alkylene-3H-imidazo[4,5-b]pyridine** derivatives as nitric oxide synthase inhibitors.

3) The statements in the description on page 14, third paragraph, implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them.

Industrial applicability

4) For the assessment of the present claims 13 and 14 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.